Under the Peperwork Reduction Act of 1995, no persons are required to respond to a collection of info Substitute for form 1449A/PTO **INFORMATION DISCLOSURE** Complete if Known STATEMENT BY APPLICANT **Application Number** 10/786,017 **Filing Date** February 26, 2004 **First Named Inventor** Babin, Denis **Art Unit** 1732 1722 **Examiner Name** Huson, Monica Anne (Use as mapped) MARIA VERONICA EWALD ets as necessary) Attorney Docket No: MMID 2001 Sheet of 2

Examiner Initial *	Cite No	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
/ME/	US20	US-2002-0086086	07/04/2002	Doyle et al.	
	US21	US-2004-0256768	12/23/2004	Olaru	
	US22	US-2004-0265422	12/30/2004	Sabin et al.	
	US23	US-4123496	10/31/1978	Gallizia et al.	
	US24	US-4303382	12/01/1981	Gellert, Jobst	
	US25	US-5783234	07/21/1998	Teng	X
	US26	US-5916605	06/29/1999	Swenson et al.	
ΔL	US27	US-5955121	09/21/1999	Gellert et al.	
V	US28	US-5941637	08/24/1999	Maurer	
/ME/	US29	US-6245278	06/12/2004	Lausenhammer et al.	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T ²		
/ME/		DE-3201710 A1	08/26/1982	Gellert, Jobst U.			
<u>/ME/</u>	FP8	EP-1140456 B1	10/10/2001	Zahoransky et al.			
/ME/	FP9	WO-03/011443 A2	02/13/2003	Stroock et al.			

	OT	HER DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No ¹	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
/ME/	NPL1	"Efficient Spiral Flow 3-D Microchannel", published at http://www.shoji.comm.waseda.ac.jp/~mf/mfeg/Sprialflow.htm , Shoji Laboratory, Waseda University, Japan,(unknown),	
/ME/	NPL2	"Hot Runner Nozzles Increase Performance", Abstract, www.tool-moldmaking.com , European Tool & Mould Making, Husky Injection Molding Systems S.A., (October 2001),	
/ME/	NPL3	"Husky Introduces Ultraflow for Ultra Hot Runner Nozzles", News Release, Husky Injection Molding Systems Ltd., (June 23, 2003),	-
/ME/	NPL4	"Melt Mixing Technology Improves Part Quality", News Release, Husky Injection Molding Systems Ltd., (August 9, 2001),	-
/ME/	NPL5	"New UltraFlow Tip Improves Melt Homogeneity and Part Quality", News Release, Husky Injection Molding Systems Ltd., (October 20, 2004),	-

EXAMINER

L-0, p. ...

/Maria Ewald/

DATE CONSIDERED

PTO/SB/08a(07-05)
Approved for use through 7/31/2006, OMB 0551-0031
US Petert & Tredemark Office; US, DEPARTMENT OF CONSMERCE

Substitut	te for form 1449A	/РТО			required to respond to a collection of information unless it contains a valid OMB control number	
		DISCLOS			Complete if Known	
STAT	EMENT B	Y APPLIC	ANT	Application Number	10/786,017	
				Filing Date	February 26, 2004	
				First Named Inventor	Babin, Denis	
				Art Unit	4732 1722	
				Examiner Name	Huson, Monica Anne	
(Use as many she	ets as necessary)		·	MARIA VERDNICA EWALD	
Sheet	2	of	2	Attorney Docket No: MMID 2001		

	OTI	HER DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	No 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
/ME/	NPL6	"Nozzle Tip Handles Quick Colour Changes", Abstract, www.tool-moldmaking.com , European Tool & Mould Making Husky Injection Molding Systems S.A., (May/June 2001),	
/ME/	NPL7	"Stable Melt Profile Means Uniform Part Quality", Abstract, www.tool-moldmaking.com , European Tool & Mould Making, Husky Injection Molding Systems S.A., (July/August 2002),	
/ME/	NPL8	"When Mixing It Is a Good Idea", Abstract, <www.tool-mold-making.com>, European Tool & Mould Making, Husky Injection Molding Systems S.A., November/December 2001</www.tool-mold-making.com>	
/ME/	NPL9	BLUNDY, J, "Improving Shear Induced Imbalance in Hot Runner Systems", INCOE Corporation, (June 25, 2004),	
/ME/	NPL10	STROOK, ABRAHAM D., "Microsystems, Microfluidic Transport, an Colloid Science", Cornell University Website at http://web1temp.cheme.cornell.edu/peopleevents/faculty/stroock/research.htm , (unknown)	
/ME/	NPL11	WRIGHT, CORIN, "Improving Color Change in Hot Runner Molds", Plastics Machinery & Auxiliaries, (April, 2003)	

EXAMINER

/Maria Ewald/

DATE CONSIDERED

PTC/SB/08a(04-07)
Approved for use through 7/31/2006. OMB 0651-0031

Substitute	for form 1449A	РТО			required to respond to a collection of information unless it contains a valid OMB control number	
INFOR	RMATION	DISCLOSU	RE		Complete if Known	
STATI	EMENT B	Y APPLICA	NT	Application Number	10/786,017	
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				Art Unit	1722	
				Examiner Name	Ewald, Maria Veronica	
(L	lse as many she	ets as necessary)				
Sheet	1	of	1	Attorney Docket No: MMID 2001		

		US	S PATENT D	OCUMENTS	
Examiner Initial *	Cite No	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Filing Date If Appropriate
/ME/	US36	US-2005-0238758A1	10/27/2005	Ciccone et al.	
/ME/	US37	US-4292018	09/29/1981	Beale	
/ME/	US38	US-4443178	04/17/1984	Fujita	
/ME/	US39	US-6450798B1	09/17/2002	Choi et al.	

	'FOREIGN PATENT DOCUMENTS							
Examiner Cite No Foreign Patent Document Publication Name of Patentee or Applicant of cited Document Document					T²			
/ME/	FP13	JP-10-006363 A	01/13/1998	Atsushi				
/ME/	FP14	JP-2-178012	07/11/1990	Kazutoshi				

OTHER DOCUMENTS NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²			

EXAMINER

/Maria Ewald/

DATE CONSIDERED

PTC/SB/08a(07-05)
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US Patent & Trademark Office; US, DEPARTMENT OF COMMERCE
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INFO	RMATION	DISCLOSUE	RE		Complete if Known		
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				First Named Inventor	Babin, Denis		
	•			Art Unit	1722		
				Examiner Name	Ewald, Maria Veronica		
,	(Use as many she	ets as necessary)					
Sheet	1	of	1	Attorney Docket No: MMID 2001			

	US PATENT DOCUMENTS							
Examiner Initial *	Cite No	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate			
/ME/	US30	US-4403933	09/13/1983	Davis et al.				
I	US31	US-4469649	09/04/1984	lbar				
\ /	US32	US-5069840	12/03/1991	Arnott				
$-\mathbf{V}$	US33	US-5262119	11/16/1993	Smith				
/ME/	US34	US-5554395	09/10/1996	Hume et al.				

		FOR	REIGN PATE	NT DOCUMENTS	
Examiner Initials*	Cite No	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T ²
/ME/	FP10	EP-0 779 140 A1	06/18/1997	Husky	\
/ME/	FP11	WO-03/035 358 A1	05/01/2003	Husky	
/ME/	FP12	DE-20 17 710 A1	10/22/1970	Montecatini Edison S.p.A.	

	OTHER DOCUMENTS NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²			
/ME/	NPL12	BEAUMONT, JOHN P., et al., "Solving Mold Filling Imbalances in Multi-cavity Injection Molds", <u>Journal of Injection Molding Technology</u> , (June 1998, Vol. 2, no. 2),47-58				

EXAMINER

/Maria Ewald/

DATE CONSIDERED

PTC/S8/06a(07-05)
Approved for use through 7/31/2006, OMB 0551-0031
US Patient & Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitu	te for form 1449A	/РТО	*	Order die Paperwork Reduction Act of 1990, to persons are	required to respond to a collection of information unless it contains a valid OMB control mumber	
INFORMATION DISCLOSURE			URE	Complete if Known		
STAT	EMENT E	Y APPLICA	ANT	Application Number	10/786,017	
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			*	First Named Inventor	Babin, Denis	
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				Examiner Name	Ewald, Maria Veronica	
('Use as many she	ets as necessary)				
Sheet	1	of	1	Attorney Docket No: MMID 2001		

US PATENT DOCUMENTS						
Examiner Initial *	Cite No	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate	
/ME/	US35	US-3696840	10/10/1972	Odhner		

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T ²	

	OTHER DOCUMENTS NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²			

/Maria Ewald/ **EXAMINER**

DATE CONSIDERED